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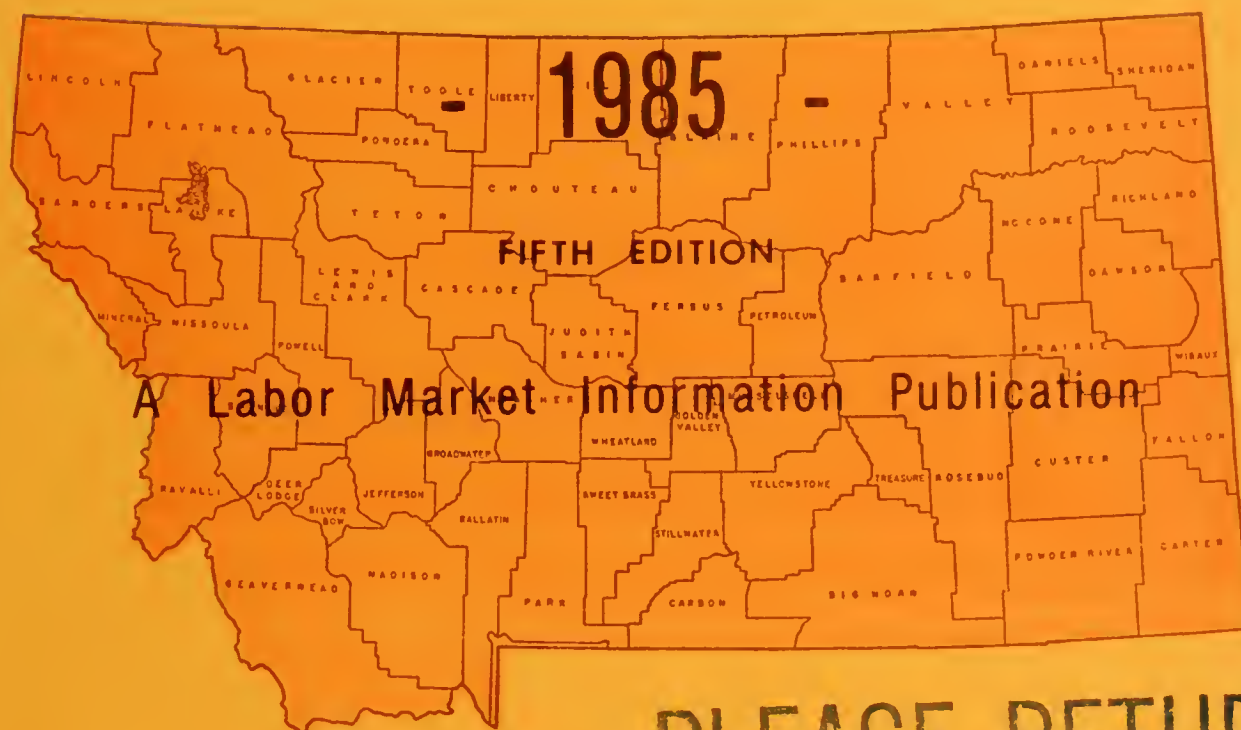
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# MONTANA

## INDUSTRY/OCCUPATION

## PROJECTIONS



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PART 1: STATE OF MONTANA

INDUSTRY/OCCUPATION PROJECTIONS: 1985

A LABOR MARKET INFORMATION PUBLICATION

STATE OF MONTANA

THOMAS L. JUDGE, GOVERNOR

DEPARTMENT OF LABOR AND INDUSTRY  
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in cooperation with  
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FIFTH EDITION

Part 1 State of Montana  
Part 2 Billings SMSA  
Part 3 Great Falls SMSA

Published June, 1980



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## INTRODUCTION

This publication is the fifth edition of industrial and occupational projections using the census matrix-based methodology developed by the U.S. Department of Labor, Bureau of Labor Statistics. The major basis used in developing the 1985 occupational projection is prior year trends of nonagriculture wage and salary industry employment. These industry employment figures were processed through linear regression, multiple regression and shift and share analysis to forecast the 1985 employment. Areas such as the energy related industries needed further consideration in their expansion forecast, due to more recent industry developments. The total number of jobs by industry is converted to occupational estimates via the census matrix based on the Bureau of Labor Statistics publication "Tomorrow's Manpower Needs". The final step involves estimating job vacancies due to growth and replacement during the projection period. The number of job vacancies due to growth is the difference between 1976 and 1985 levels of employment for each occupation. The replacement rate, which is the measure of job vacancies due to death, retirement, or withdrawal from the labor force, is developed using census information on the Age-Sex composition of employment in each occupation for each state.

In the future an expanded Industry-Occupation Matrix will result from the Occupational Employment Statistics survey operations and will be used to provide information regarding occupational needs.

It has become mandatory that education and training be made relevant to the real world and it is hoped that these projects of future occupational needs will be useful in meeting the requirements of those involved in planning career guidance and training programs. Despite the limitations that these projections share with any economic forecast, long-term manpower projections can serve to give an orientation or perspective on the number and kinds of skills that public and private employers will require in the future.





INDUSTRY EMPLOYMENT: 1985



## MINING

Energy development of Montana's coal, gas, and oil resources will add a significant number of jobs in this area. As increased pressure to become energy self-sufficient is felt so should jobs increase as is seen in a three-hundred-twenty percent increase in coal and a sixty-five percent increase in oil and gas. The current import related slow downs in the metallic mining industry seems to have leveled off. Mining has been important in both the political and industrial development of Montana, and will remain so and even have some influence on national politics with regards to energy. Employment levels in 1976 were estimated at 6,630 and showed a significant increase of sixty-two percent to 10,710 by 1985.

## CONTRACT CONSTRUCTION

The demand for new housing and energy related large scale projects such as Colstrip #3 and #4 will keep employment opportunities in this area expanding. Construction employment is subject to extreme seasonal fluctuations so it may vary greatly throughout the year. Employment is projected to be 34,722 by 1985, a fifty percent increase over the 1976 figure at 23,136.

## MANUFACTURING

Manufacturing represents a small percent of total employment and shows a moderate growth at twenty-two percent from 1976 to 1985. The majority of manufacturing employment is in lumber and woods, food products, and primary metals. The thirty-one percent growth in lumber and woods can be directly related to demand for housing. Foreign competition will still affect primary metals but it will show some gains over 1976 figures. Durable goods will account for 20,489 and non-durable 9,922 by 1985.

## TRANSPORTATION, COMMUNICATIONS, AND PUBLIC UTILITIES

All areas in this division will experience growth during this time. Transportation shows growth in railroads and local transit. As petroleum costs rise the importance of mass transit and rail shipping will increase and employment will likewise increase. The sixty-nine percent increase in communications and public utilities will add about 5,800 jobs in this area. The greatest single cause can be attributed to energy development.

## WHOLESALE AND RETAIL TRADE

An increase of 25,000 workers should occur in wholesale and retail trade, Montana's second largest division. Wholesale accounts for seventeen percent and will experience a twenty-eight percent increase between 1976 and 1985. Retail is eighty-three percent and will grow thirty-four percent in this time. Eating and drinking establishments, auto dealers, gas stations, and general merchandise will employ the largest portions of this industry. Employment opportunities should remain high in this area.

## FINANCE, INSURANCE, AND REAL ESTATE

This industry is influenced mostly by population and the effect of population growth is readily seen in the forty-five percent increase experienced in finance, insurance, and real estate. This will account for an increase of 5,500 new jobs.

## SERVICES

Montana's largest division will provide jobs for 130,008 workers in 1985. This forty percent increase adds 37,045 jobs to the 1976 level. The

### SERVICES (Cont.)

industries in this sector are hotels and lodging, personal services, business services, auto repair, entertainment, medical, legal, educational, museums, nonprofit and miscellaneous services. Growth will be experienced in all segments at this division. Increased population growth and greater societal demand will be the cause for this growth.

### PUBLIC ADMINISTRATION

This division accounts for only those jobs which cannot be classified in any other industrial classification. It is expected to grow twenty-seven percent to 22,625 jobs by 1985. The majority of this growth will be at the state and local level.

TABLE I

DISTRIBUTION OF GOODS - PRODUCING AND SERVICE-PRODUCING  
INDUSTRIES 1976 and 1985

	1976 Employ- ment	Per- cent	1985 Employ- ment	Per- cent	1976-1985 Net Change
TOTAL, ALL INDUSTRIES	314,841	100.0	417,482	100.0	102,641
Goods Producing Industries	87,649	27.8	108,861	26.1	21,212
Ag. Production	32,926	10.5	33,018	7.9	92
Mining	6,630	2.1	10,710	2.6	4,080
Contract Construction	23,136	7.4	34,722	8.3	11,586
Manufacturing	24,957	7.9	30,411	7.3	5,454
Service Producing Industries	227,192	72.2	308,621	73.9	81,429
Ag. Services, Forestry, Fisheries	6,828	2.2	6,820	1.6	-8
Trans., Comm., & Public Utilities	21,387	6.8	30,400	7.3	9,013
Wholesale & Retail Trade	75,909	24.1	100,899	24.2	24,990
Fin., Ins., & Real Estate	12,319	3.9	17,869	4.3	5,550
Services	92,963	29.5	130,008	31.1	37,045
Government	17,786	5.7	22,625	5.4	4,839

TABLE 2

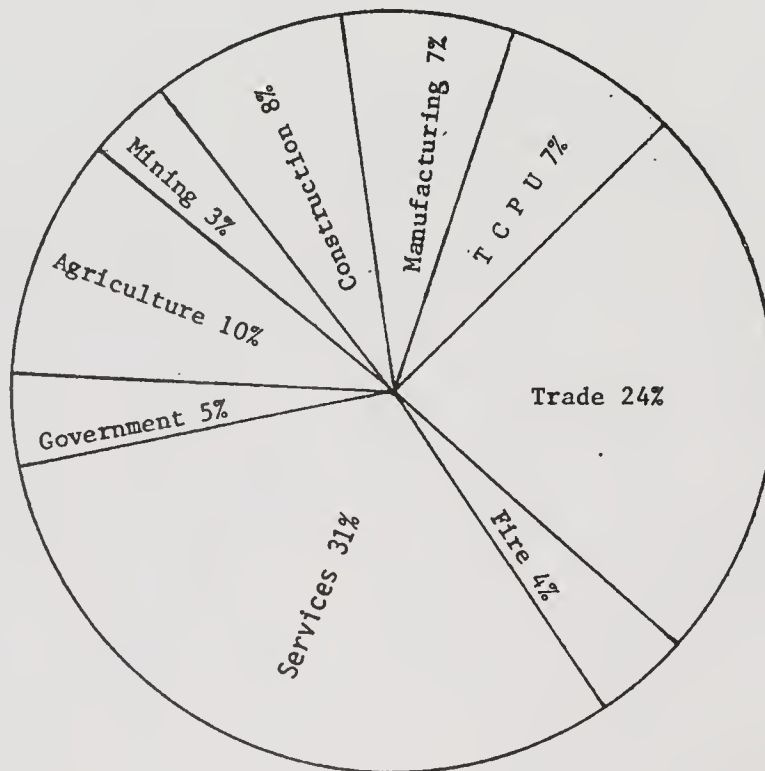
MONTANA EMPLOYMENT BY MAJOR DIVISION  
1970, 1976, AND PROJECTED 1985

INDUSTRY	EMPLOYMENT		
	<u>1970</u>	<u>1976</u>	<u>1985</u>
TOTAL, ALL INDUSTRIES	254.7	314.8	417.5
Agriculture, Forestry, Fisheries	34.3	39.8	39.8
Mining	6.7	6.6	10.7
Construction	18.1	23.1	34.7
Manufacturing	24.7	25.0	30.4
Durable Goods	15.8	16.2	20.5
Nondurable Goods	8.9	8.8	9.9
Transportation, Communication, & Public Utilities	18.5	21.4	30.4
Trade	57.1	75.9	100.9
Wholesale	10.4	13.5	17.3
Retail	46.7	62.4	83.6
Finance, Insurance, & Real Estate	9.3	12.3	17.9
Services	71.8	93.0	130.0
Public Administration	14.2	17.8	22.6

TABLE 3

TOTAL EMPLOYMENT  
BY MAJOR DIVISION

INDUSTRY	PROJECTED 1985 EMPLOYMENT
TOTAL ALL INDUSTRIES	417,482
Agriculture, Forestry, Fisheries	39,838
Mining	10,710
Construction	34,722
Manufacturing	30,411
Trans., Comm., & Public Utilities	30,400
Wholesale & Retail Trade	100,899
Fin., Ins., & Real Estate	17,869
Services	130,008
Government <u>1/</u>	22,625



1/ Includes those workers engaged in activities unique to government.



TABLE 4

MONTANA  
TOTAL EMPLOYMENT BY INDUSTRY  
INDUSTRY LISTING FROM STANDARD  
INDUSTRIAL CLASSIFICATION MANUAL

	TOTAL EMPLOYMENT		PERCENT CHANGE
	1976	1985	1976-1985
Total all industries .....	314841	417482	32.60
Agriculture, forestry, fisheries .....	39754	39838	.21
Agriculture .....	34103	34513	1.20
Agricultural production .....	32926	33018	0.28
Services, exc horticulture .....	910	1127	23.85
Horticultural services .....	267	368	37.83
Forestry .....	5573	5247	-5.85
Fisheries .....	78	78	0.0
Mining.....	6630	10710	61.54
Metal Mining .....	2488	2289	-8.00
Coal Mining .....	764	3208	319.90
Crude petroleum and nat ga .....	2451	4034	64.59
Nonmetallic mining, quarrying .....	927	1179	27.18
Construction .....	23136	34722	50.08
General building contractors .....	5954	9401	57.89
Gen contractors, exc bld .....	9043	14310	58.24
Special trade contractors .....	8139	11011	35.29
Manufacturing .....	24957	30411	21.85
Durable goods .....	16174	20489	26.68
Ordnance .....	210	*	-100.00
Lumber and wood product .....	9724	12703	30.64
Logging .....	1991	2599	30.54
Sawmill, planing mill, mill .....	7455	9744	30.70
Misc wood product .....	278	360	29.50
Furniture and fixtures .....	173	203	17.34
Stone, clay, glass product .....	1191	1437	20.65
Glass and glass product .....	*	*	*
Cement, concrete, plaster .....	1069	1302	21.80
Structural clay prod .....	60	74	23.33
Pottery and related prod .....	11	12	9.09
Misc nonmetallic, stone .....	49	49	0.0
Primary metal industries .....	2906	3400	17.00
Blast furnaces, steel wks .....	*	*	*
Other primary steel .....	*	*	*
Primary aluminum ind .....	745	1136	52.48
Other primary nonferrous .....	2152	2255	4.79

\*Less than ten

	TOTAL EMPLOYMENT		PERCENT CHANGE 1976-1985
	1976	1985	
Fabricated metal prod .....	485	687	41.65
Cutlery, other hardware .....	50	59	18.00
Fabricated metal prod .....	371	549	47.98
Screw machine prod .....	*	*	*
Metal stamping .....	*	*	*
Misc fabricated metal pr .....	64	79	23.44
Machinery, exc electrical .....	412	458	11.17
Engines and turbines .....	*	*	*
Farm machinery, equip .....	106	128	20.75
Construction machines .....	52	77	48.08
Metalworking machinery .....	*	*	*
Office, accounting mach .....	*	*	*
Electronic computing equ .....	*	*	*
Machinery, nec .....	249	248	-0.40
Electrical machinery .....	105	235	123.81
Household appliances .....	*	*	*
Radio, TV, commun equip .....	*	20	122.22
Electrical machinery, nec .....	89	208	133.71
Transportation equip .....	486	783	61.11
Motor vehicle equip .....	16	36	125.00
Aircraft and parts .....	13	18	38.46
Ship, boat bldg, repair .....	39	54	38.46
Railroad equip .....	*	*	*
Mobile dwelling .....	40	40	0.0
Cycles, misc transp equip .....	378	635	67.99
Prof, scientif instruments .....	79	93	17.72
Scientific instruments .....	*	*	*
Optical, health serv supp .....	72	86	19.44
Photo equip and supplies .....	*	*	*
Watches and clock device .....	*	*	*
Misc manufacturing .....	403	490	21.59
Nondurable goods .....	8783	9922	12.97
Food and kindred prod .....	3802	4273	12.39
Meat products .....	719	853	18.64
Dairy products .....	691	757	9.55
Canning and preserving .....	46	74	60.87
Grain-mill products .....	730	733	0.41
Bakery products .....	564	659	16.84
Confectionary products .....	*	*	*
Beverage industries .....	445	442	-0.67
Misc food preparation .....	607	755	24.38
Tobacco manufacturing .....	*	*	*
Textile mill products .....	*	*	*
Knitting mills .....	*	*	*
Dyeing, finishing textile .....	*	*	*
Floor coverings .....	*	*	*
Yarn, fabric mills .....	*	*	*
Misc text mill products .....	*	*	*
Apparel, textile products .....	286	231	-19.23
Apparel and accessories .....	17	16	-5.88
Misc fabricated products .....	269	215	-20.07
Paper and allied products .....	461	829	79.83
Pulp, paper, paperbd mills .....	375	729	94.40
Paperbd containers, boxes .....	*	*	*
Misc paper and pulp prod .....	81	94	16.05
Printing and publishing .....	2565	2758	7.52
Newspaper publ, printing .....	1822	1886	3.51
Print, publish exc news .....	743	872	17.36
Chemical and allied prod .....	500	695	39.00
Industrial chemicals .....	396	425	7.32
Plastics, synthetics .....	*	*	*
Synthetic fibers .....	*	*	*
Drugs and medicines .....	22	18	-18.18
Soaps and cosmetics .....	*	*	*
Paints, varnishes .....	58	75	29.31

\*Less than ten

	TOTAL EMPLOYMENT		PERCENT CHANGE
	1976	1985	1976-1985
Auto repair services .....	2765	4137	49.62
Auto repair .....	2331	3170	35.99
Auto services, exc repair .....	434	967	122.81
Other repair services .....	1510	1759	17.16
Electrical repair shop .....	436	521	19.50
Other repair services .....	1510	1759	16.49
Motion pictures, theaters .....	821	1037	26.31
Misc entertainment .....	1645	2886	75.44
Bowling alleys, billiards .....	556	885	59.17
Misc entertainment .....	1089	2001	83.75
Medical, other health .....	21813	34189	56.74
Offices of physicians .....	2855	4333	51.77
Offices of dentists .....	1320	2124	60.91
Offices of chiropractors .....	234	294	25.64
Hospitals .....	12469	18632	49.43
Convalescent institution .....	2658	4942	85.93
Health practitioners, nec .....	1397	2564	83.54
Health services, nec .....	880	1300	47.73
Legal services .....	1473	1772	20.30
Educational services .....	32403	44515	37.38
Elementary, secondary .....	21010	32072	52.65
Colleges and universitie .....	9434	9968	5.66
Libraries .....	270	410	51.85
Educational services, ne .....	1689	2065	22.26
Museums, art galleries, zoo .....	43	74	72.09
Nonprofit organizations .....	6555	8310	26.77
Religious organizations .....	2071	3229	55.92
Welfare services .....	2641	3499	32.49
Residential welfare .....	462	612	32.47
Nonprofit membership .....	1381	970	-29.76
Private households .....	2378	2037	-14.34
Other prof, related service .....	3315	4767	43.80
Eng and arch services .....	1094	1706	55.94
Accounting, auditing .....	1502	2139	42.41
Misc prof services .....	719	922	28.23
Government total	17786	22625	27.21
Federal public admin .....	8798	9350	6.27
Postal services .....	2131	1679	-21.21
Other public admin .....	6667	7671	15.06
State public admin .....	3113	4665	49.86
Local public admin .....	5875	8610	46.55



EMPLOYMENT  
BY  
OCCUPATION: 1985

MONTANA  
EMPLOYMENT BY OCCUPATION  
1976-1985

Total annual average job openings in Montana are estimated at 23,700 over the study period. Openings due to growth consist of 48% or 11,400 of the total; thus for every 100 new jobs created by industry growth there will be about 104 openings due to separations. Montana's total employment from 1976 through 1985 is projected to increase at an average rate of 3.6% which compares to 2.9% for the U.S. With the self employed, unpaid family workers and farm workers remaining relatively unchanged during the 1976-1985 period, nonagricultural wage and salary workers will make up the bulk of the growth. Nonagricultural wage and salary employment increase for the past four years were as follows: 1976 - 12,900, 1977 - 16,600, 1978 - 12,600 and 1979 - 4,600. The four year average of 11,600 is not strictly comparable to the projected 1976-1985 annual average of 11,400, but indicates the growth is occurring as estimated.

In grouping occupations into type of worker, the white-collar workers trend dominates the relative increase in employment. Employment of service workers is also growing at a significant rate. The rapid growth of white-collar and service workers reflects a technically oriented economy and the continued expansion of service producing industries which employ a large number of these workers. Blue-collar workers experienced a decline in relative distribution from 1960 to 1970, but the current expansion in energy related industries has been a major reason for blue-collar employment growth to become as strong as the other two groups. The farm sector of occupations has been experiencing a decline in the number employed, but the 1976-1985 period anticipates stabilization in employment. Since the other type of workers will continue to increase, farmers and farm workers relative distribution will still continue to decline each year.

PROFESSIONAL, TECHNICAL, AND KINDRED WORKERS

Professional occupations deal with theoretical or practical aspects of such fields as science, engineering, technical work, art, education, medicine, law, and business relations. Most of these occupations require substantial educational preparation, usually at the university level. Technical positions require knowledge of scientific, engineering, mathematical, computer programming, and draft design principles acquired by training through technical institutions, junior colleges, post-high school courses, on-the-job training or experience.

MONTANA  
EMPLOYMENT BY OCCUPATION  
1976-1985 (Cont.)

PROFESSIONAL, TECHNICAL, AND KINDRED WORKERS (Cont.)

The number of job openings in this group is projected to increase at an annual average of 3,300 with 54% of those jobs being expansion positions. These jobs should account for 13.9% of total job openings through 1985. The annual average growth rate for professional, technical and kindred workers is 3.8%.

The occupation with the highest job needs in this group is elementary school teachers, however, in recent years there has been a state-wide surplus of people with teaching degrees. Other professional, technical and kindred occupations with relatively large job needs are professional nurse, secondary school teachers, accountants and clergy.

MANAGERS AND OFFICIALS

The managers and officials occupational group includes persons concerned with policy making, planning, organizing, staffing, directing and/or controlling activities that are common to many types of organizations as well as activities that require a knowledge of management and operation of a given organization. Employers increasingly require beginning managers to have a college degree. A bachelor's degree in business administration with a major in accounting, economics, or finance is desired by some employers. Other firms seek applicants having technical training in engineering, science, or mathematics. Still others train liberal arts graduates on the job. Advancement to a high-level management job often occurs after several years of progressively more responsible work experience.

Employment in this group will increase by 14,120 from 1976 through 1985, which amounts to an annual average of 3.8%. The number of jobs opening each year is estimated at 3,400 with 46% coming from opening due to growth. The average growth rate for managers and officials is 3.8%.

The occupation in this group with the highest job needs is bank and financial managers with 232 openings yearly. Because managers are employed in a broad range of settings, it is difficult to pinpoint specific occupations that will be in demand; therefore, a relatively high number of yearly job openings (1,891) are found in the classification of all other managers.



MONTANA  
EMPLOYMENT BY OCCUPATION  
1976-1985 (Cont.)

SALES WORKERS

Included in this major occupational group are occupations which are concerned with selling goods and/or services. The minimum educational requirements for sales careers vary widely. Some sales positions require no formal education, others specify a college degree in a technical or scientific field. Even for routine sales jobs, however, a high school diploma is an asset for the beginner. Training for some sales jobs, such as those in retail stores, is usually received on the job. Some persons combine on-the-job training with home study or courses offered by manufacturers or local educational institutions.

Sales workers represent the smallest number of yearly employment openings, (1,270), and the lowest annual growth rate, (3.4%), for white-collar workers. Also, the expansion of jobs involve only 45% the annual openings, which is the lowest expansion portion of all the major occupational groups.

The job with the highest projected needs is other sales workers with 882 openings yearly through 1985, which is a 69% total of the sales workers. The next highest job needs occur in real estate agents.

CLERICAL WORKERS

Included in this occupational group are clerical personnel whose work involves preparing, transcribing, transferring, systematizing, and preserving communications and records; collating accounts; and distributing information. Also included are clerical workers involved in planning, coordinating or expediting production and the flow of work and workers involved in the clerical aspects of receiving, storing, issuing or shipping of materials, merchandise, supplies, or equipment. All but the most routine clerical positions require graduation from high school. Most employers regard instruction in business subjects as particularly good qualifications.

Employment in this occupation group is projected to increase at an annual average rate of 4.5%. The number of yearly openings amount to 3,780 with 53% being expansion jobs.

From this group, the occupation with the highest annual job needs are secretaries with 870 openings yearly. Other occupations with high demands are bookkeepers, miscellaneous clerical workers, and teachers aides.



MONTANA  
EMPLOYMENT BY OCCUPATION  
1976-1985 (Cont.)

CRAFTS AND KINDRED WORKERS

This group of skilled workers include those involved in construction, metal-working, printing, transportation, public utilities, and other crafts and kindred work. Also included are mechanics, repairers, and installers. A large portion of the workers learn their trades informally on the job or through planned apprenticeship training. Others learn a skilled trade in vocational, trade, or technical schools. Training and experience in the Armed Forces may be an asset in many of these jobs. A high school education is always helpful and is required by some employers. Also, a high degree of aptitude is most desirable.

Openings due to growth comprise 59% of the 3,060 yearly average openings for this group. Employment in this group is projected to increase 4.6% yearly from 1976 through 1985.

Occupations with high demand include carpenters, electricians, plumbers, auto mechanics, and heavy equipment mechanics.

OPERATIVES

This group of workers is classified as semiskilled. Most of them may operate some type of machinery, equipment, or tool in performing their jobs while others perform tasks requiring use of the hands only. These workers ordinarily receive only brief on-the-job training. The simplest repetitive and routine semiskilled jobs can be learned in a day and mastered in a week. Even those jobs that require a higher degree of skill can be learned in a few months. The ability to learn new jobs quickly, however, is an important qualification for semiskilled workers.

Although employment in this category is expected to increase by 8,940 between 1976 and 1985, the average rate of increase of 3.1% is the lowest of the occupation groups except for farmers. The number of annual job openings is projected at 1,830 yearly for the 1976-1985 period, with 54% of the jobs being expansion positions.

The occupation with the highest demand from this group is truck drivers. Also high in demand are welders, garage workers, mine operatives, sawyers, delivery and route workers.

LABORERS, EXCEPT FARM

These workers are found in practically all types of nonagricultural industries. For example, they may be in construction, in handling freight and materials, in collecting garbage, in gardening, in cutting timber, in filling orders, in stocking merchandise, or in assisting in the trades.

MONTANA  
EMPLOYMENT BY OCCUPATION  
1976-1985 (Cont.)

LABORERS, EXCEPT FARM

Much of the work that nonfarm laborers perform involves tasks that require little special training. Brief instruction and a few hours of on-the-job training usually are sufficient preparation for a job as a nonfarm laborer.

Laborers, the smallest occupational group, is projected to have one of the smaller increases in the annual average employment rates at 3.2%. Also the number of yearly openings will be a low 950 jobs which will be 48% openings due to growth.

Some labor occupations with relatively high demand are construction laborer, freight and material handlers, groundkeeper, and stock handlers.

SERVICE WORKERS

The occupational group - service workers - include workers concerned with: cleaning and/or serving food and beverages; performing services that require either direct contact or close association with the individual; or the protection of individuals, or of public or private property. Training and skill requirements differ greatly among the various service occupations. Some must have a college degree, some need specialized vocational training, and others have no specific educational requirements for entry, although a high school diploma is always an advantage.

Service workers are the largest major occupational group and have a wide variety of jobs and skills. Employment in this category will increase 4.7% each year for the 1976-1985 period. Openings due to growth comprise 48% of the 4,580 yearly openings.

The occupation with the highest demand from this group is cooks with 613 yearly openings. Other high demand jobs are cleaners and janitors, waiters, child care workers, nurses aides and orderlies, and bartenders.

FARMERS AND FARM WORKERS

The declining employment of this occupational group will experience a stabilization in the 1976-1985 period. Some farm laborers jobs will be lost due to declining openings but an equal number of farm manager positions will be created by expansion.

TABLE 5

MONTANA DISTRIBUTION OF EMPLOYMENT  
BY MAJOR OCCUPATIONAL GROUP  
1976 AND PROJECTED 1985

MAJOR OCCUPATIONAL GROUP	1976		PROJECTED 1985		PERCENT CHANGE 1976-1985
	EMPLOYMENT	PERCENT DISTRIBUTION	EMPLOYMENT	PERCENT DISTRIBUTION	
TOTAL ALL OCCUPATIONS	314,750	100.0	417,380	100.0	32.6
WHITE COLLAR WORKERS	148,650	47.2	201,960	48.4	35.9
Professional, Technical and Kindred	46,210	14.7	62,170	14.9	34.5
Managers, Officials, and Proprietors	40,780	13.0	54,900	13.2	34.6
Sales Workers	16,990	5.4	22,140	5.3	30.3
Clerical Workers	44,670	14.2	62,750	15.0	40.5
BLUE COLLAR WORKERS	87,180	27.7	116,890	28.0	34.1
Craft and Kindred Workers	39,470	12.5	55,740	13.4	41.2
Operatives	32,120	10.2	41,060	9.8	27.8
Laborers, Except Farmers	15,590	5.0	20,090	4.8	28.9
SERVICE WORKERS	46,790	14.9	66,430	15.9	42.0
FARMERS AND FARM WORKERS	32,130	10.2	32,100	7.7	-0.1

TABLE 6

TOTAL EMPLOYMENT  
BY MAJOR OCCUPATIONAL GROUP  
1985

MAJOR OCCUPATIONAL GROUP	PROJECTED EMPLOYMENT 1985
TOTAL ALL OCCUPATIONS	417,380
Professional, Technical, and Kindred	62,170
Managers, Officials, and Proprietors	54,900
Sales Workers	22,140
Clerical Workers	62,750
Craft and Kindred Workers	55,740
Operatives	41,060
Service Workers	66,430
Laborers, Except Farm	20,090
Farmers and Farm Workers	32,100

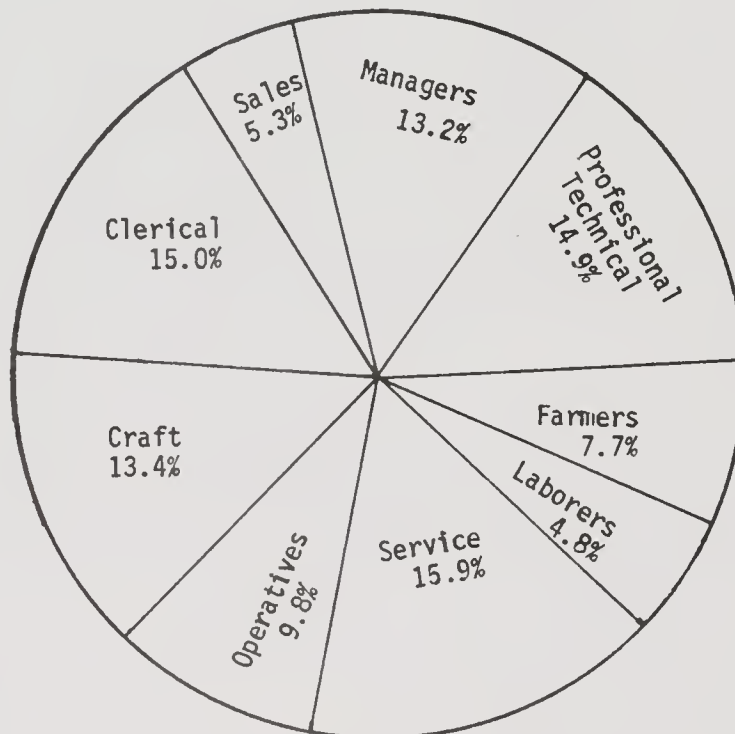


TABLE 7

MONTANA  
TOTAL EMPLOYMENT BY OCCUPATIONAL CATEGORIES  
1976-1985

OCCUPATIONAL GROUP	1976	1985	PERCENT CHANGE
TOTAL ALL OCCUPATIONS	314,750	417,380	32.6
Professional, Technical and Kindred	46,210	62,170	34.5
Engineers, Technical	2,410	3,220	33.6
Life and Physical Scientist	1,480	1,830	23.4
Mathematical Specialist	70	90	33.3
Engineers, Science Tech.	2,850	3,870	35.8
Medical Workers, Exc. Tech.	6,300	9,440	49.8
Health Technol. & Tech.	1,420	2,040	43.1
Technicians, Exc. Health	1,010	1,370	35.0
Computer Specialist	440	590	36.3
Social Scientists	390	570	45.5
Teachers	15,200	20,700	36.1
Writers, Artists, Entertainers	3,040	4,090	34.7
Other Professional, Technical	11,600	14,380	23.9
Managers, Officials, Proprietors	40,780	54,900	34.6
Buyers, Sales, Loan Managers	5,270	8,151	54.8
Administrators, Pub. Inspectors	5,340	7,300	36.7
Other Managers, Officials, Props	30,170	39,450	30.8
Sales Workers	16,990	22,140	30.3
Clerical Workers	44,670	62,750	40.5
Stenographers, Typists, Secretaries	12,320	17,680	43.6
Office Machine Operators	1,200	1,340	11.7
Other Clerical Workers	31,150	43,730	40.4
Craft & Kindred Workers	39,470	55,740	41.2
Construction Craft Workers	13,850	21,180	52.9
Blue Collar Worker Supvr., N.E.C.	3,810	5,310	39.3
Metalworking Craft Workers, Exc. Mec.	1,750	2,360	34.3
Mechanics, Repairers/Installers	11,980	16,180	35.1
Printing Trade Craft Workers	840	830	-1.2
Trans., P.U. Craft	2,030	3,080	51.6
Other Craft, Kindred Workers	5,210	6,820	30.8
Operatives	32,120	41,060	27.8
Operatives, Exc. Transport	20,080	26,190	30.4
Transport Equip. Operatives	12,040	14,880	23.5
Service Workers	46,790	66,430	42.0
Cleaning Service Workers	9,850	14,100	43.1
Food Service Workers	19,420	27,890	43.6
Health Service Workers	6,360	9,910	55.7
Personal Service Workers	6,480	8,960	38.4
Protective & Service Workers	2,860	4,170	46.1
Private Household Workers	1,860	1,410	-24.2
Laborers, Except Farm	15,590	20,090	28.9
Farmers & Farm Workers	32,130	32,100	-0.1
Farmers & Farm Managers	18,220	19,670	7.9
Farm Laborers, Farm Supvrs.	13,900	12,430	-10.6

TABLE 8

MONTANA  
ANNUAL AVERAGE JOB OPENINGS  
1976 - 1985

MAJOR OCCUPATIONAL GROUP	TOTAL	OPENINGS DUE TO GROWTH	OPENINGS DUE TO SEPARATIONS
Total All Occupations	23,770	11,400	12,360
White-Collar Workers	11,750	5,920	5,830
Prof., Technical, and Kindred	3,300	1,770	1,530
Managers, Officials, and Propr.	3,400	1,570	1,830
Sales Workers	1,270	570	700
Clerical Workers	3,780	2,010	1,770
Blue-Collar Workers	5,840	3,300	2,540
Craft and Kindred Workers	3,060	1,810	1,250
Operatives	1,830	990	840
Nonfarm Laborers	950	500	450
Service Workers	4,580	2,180	2,400
Farmers and Farm Workers	1,590	0	1,590



TABLE 9  
MONTANA TOTAL ANNUAL AVERAGE JOB OPENINGS  
DUE TO GROWTH AND LABOR FORCE SEPARATIONS  
BY SELECTED OCCUPATIONAL GROUPS  
1976-1985

OCCUPATIONAL GROUP	OPENINGS DUE TO GROWTH	OPENINGS DUE TO SEPARATIONS	TOTAL OPENINGS	PERCENT OF TOTAL
TOTAL ALL OCCUPATIONS	11,400	12,360	23,770	100.0
Professional, Technical and Kindred	1,770	1,530	3,300	13.9
Engineers, Technical	90	40	130	0.6
Life and Physical Scientist	40	30	70	0.3
Mathematical Specialist	*	*	*	0.0
Engineers, Science Tech.	110	50	160	0.7
Medical Workers, Exc. Tech.	350	240	590	2.5
Health Technol. & Tech.	70	40	110	0.5
Technicians, Exc. Health	40	30	70	0.3
Computer Specialist	20	*	20	0.1
Social Scientists	20	10	30	0.1
Teachers	610	600	1,210	5.1
Writers, Artists, Entertainers	120	90	210	0.9
Other Professional, Technical	310	400	710	3.0
Managers, Officials, Proprietors	1,570	1,830	3,400	14.2
Buyers, Sales, Loan Managers	320	180	500	2.1
Administrators, Pub. Inspectors	220	280	500	2.1
Other Managers, Officials, Props	1,030	1,380	2,410	10.1
Sales Workers	570	700	1,270	5.3
Clerical Workers	2,010	1,770	3,780	15.9
Stenographers, Typists, Secretaries	600	500	1,100	4.6
Office Machine Operators	20	30	50	0.2
Other Clerical Workers	1,400	1,240	2,640	11.1
Craft & Kindred Workers	1,810	1,250	3,060	12.9
Construction Craft Workers	810	490	1,300	5.5
Blue Collar Worker Supvr., N.E.C.	170	130	300	1.3
Metalworking Craft Workers, Exc. Mec.	70	50	120	0.5
Mechanics, Repairers/Installers	470	320	790	3.3
Printing Trade Craft Workers	*	20	20	0.1
Trans., P.U. Craft	120	40	160	0.7
Other Craft, Kindred Workers	180	190	370	1.6
Operatives	990	840	1,830	7.7
Operatives, Exc. Transport	680	560	1,240	5.2
Transport Equip. Operatives	310	280	590	2.5
Service Workers	2,180	2,400	4,580	19.3
Cleaning Service Workers	470	640	1,110	4.7
Food Service Workers	940	870	1,810	7.6
Health Service Workers	390	300	690	2.9
Personal Service Workers	280	370	650	2.7
Protective & Service Workers	150	130	280	1.2
Private Household Workers	-50	90	40	0.2
Laborers, Except Farm	500	450	950	4.0
Farmers & Farm Workers	*	1,590	1,590	6.7
Farmers & Farm Managers	160	1,140	1,300	5.5
Farm Laborers, Farm Supvrs.	-160	460	300	1.3

\* Denotes occupation with annual average openings of less than 10.

TABLE 10  
SELECTED OCCUPATIONS IN MONTANA  
HAVING ANNUAL AVERAGE OPENINGS GREATER THAN 100

<u>Occupation</u>	<u>Annual Average Openings</u>
Professional, Technical, Kindred	
Registered Nurses	269
Elementary School Teachers	735
Preschool, Kindergarten	112
Secondary School Teachers	264
Accountants	179
Clergy	116
Managers, Officials, Proprietors	
Bank, Financial Managers	232
Sales Manager, Retail Trade	107
Officials, Administrators, Public	152
School Admins. Elementary, Secondary	158
Office Managers, nec.	158
Restuarant, Cafe, Bar Managers	210
Sales Workers	
Insurance Agents, Brokers, etc.	107
Real Estate Agents, Brokers	145
Clerical Workers	
Secretaries, other	870
Typist	142
Bookkeepers	491
Cashiers	313
Counter Clerks, exc. Food	161
Receptionist	176
Teacher Aides, exc. Monitors	211
Miscellaneous Clerical Workers	507
Craft and Kindred Workers	
Carpenters and Apprentices	583
Electricians and Apprentices	168
Excavating, Grading, Machine Operator	184
Plumbers, Pipefitters, Apprentices	132
Auto Mechanics and Apprentices	232
Heavy Equipment Mechanics	195
Operatives	
Welders and Flame Cutters	124
Garage Workers, Gas Station Atten.	123
Laundry, Dry Cleaning Operator	101
Mine Operatives	108
Sawyers	108
Miscellaneous Machine Operator	124
Delivery and Route Workers	129
Truck Drivers	271



TABLE 10

SELECTED OCCUPATIONS IN MONTANA  
HAVING ANNUAL AVERAGE OPENINGS GREATER THAN 100 (Cont.)

<u>Occupation</u>	<u>Annual Average Openings</u>
Service	
Lodging Quarter Cleaners	223
Building Interior Cleaners	438
Janitors and Sextons	447
Bartenders	277
Cooks	613
Dishwashers	116
Food Counter, Fountain Workers	133
Waiters	516
Nurses Aides, Orderlies	369
Practical Nurses	180
Child Care Workers	344
Hairdressers, Cosmetologist	117
Guards	120
Laborers, exc. Farm	
Construction Laborer	169
Freight, Material Handlers	130
Gardeners, Groundskeeper	149
Stock Handlers	128
Farmers and Farm Workers	
Farm Managers	215
Farm Laborers, Wage Workers	171

TABLE 11

SELECTED OCCUPATIONS HAVING  
HIGH GROWTH RATES IN MONTANA  
1976-1985

<u>Occupation</u>	<u>Total Employment</u> <u>1976</u>	<u>1985</u>	<u>Percent</u> <u>Change</u>
<u>Professional, Technical, Kindred</u>			
Chiropractors	90	137	52.2
Dentist	471	728	54.6
Optometrists	414	793	91.6
Podiatrists	129	234	81.4
Therapists	535	876	63.7
Veterinarians	105	167	59.0
Clinical Lab Technician	619	934	50.9
Radiologic Technician	306	482	57.5
Airplane Pilots	195	311	59.5
Urban & Regional Planners	64	111	73.4
Elementary School Teachers	6387	10144	58.8
Preschool, Kindergarten	838	1506	79.7
Athletes & Kindred Workers	231	324	56.7
Architects	216	325	50.5
Clergy	1032	1580	53.1
Religious, except Clergy	222	341	53.6
<u>Managers, Official, Proprietors</u>			
Bank, Financial Managers	2073	3523	70.0
Buyer, Wholesale, Retail	395	615	55.7
School Administrator elem, secondary	1379	2318	68.1
Managers, Supertendants, Buildings	398	601	51.0
Railroad Conductors	385	665	72.7
<u>Clerical Workers</u>			
Secretaries, Legal	388	590	52.1
Secretaries, Medical	240	517	115.4
Secretaries, other	8692	13153	51.3
Billing Clerk	397	721	81.6
Meter Readers, Utilities	131	238	81.7
Teachers Aides, exc. Monitors	1203	2606	116.6
Miscellaneous Clerk Workers	2933	6139	109.3
<u>Craft and Kindred Workers</u>			
Carpenters and Apprentices	5767	8770	52.1
Bulldozer Operators	798	1361	70.6
Cement & Concrete Finishers	136	262	92.7
Electricians & Apprentices	1850	2881	55.7
Plumbers, Pipefitters	1336	2061	54.3
Structural Metal Craft Workers	240	450	87.5
Air Cond., Heating, Refrig. Mechanic	345	487	75.4

TABLE 11

SELECTED OCCUPATIONS HAVING  
HIGH GROWTH RATES IN MONTANA  
1976-1985 (Cont.)

<u>Occupation</u>	<u>Total Employment</u> <u>1976</u>	<u>1985</u>	<u>Percent</u> <u>Change</u>
<u>Craft and Kindred Workers</u>			
Household Appliance Mechanic	528	874	65.5
Office Machine Repairs	222	422	90.1
Electric Power Line Installer, Repairs	437	858	96.3
Glaziers	136	216	58.8
Opticians, Lens Grinder, Polishers	278	512	84.2
<u>Operatives</u>			
Blasters	80	179	123.8
Drillers, Earth	644	980	52.2
Photographic Process Workers	178	292	64.0
Rail Vehicle Operators	131	296	126.0
Railroad Brake Operators	508	779	53.4
<u>Service Workers</u>			
Lodging Quarters Cleaners, exc. Private	1349	2550	89.0
Building Interior Cleaners, nec.	3334	5154	54.6
Food Counter, Fountain Workers	1274	2048	60.8
Dental Assistants	397	792	99.5
Health Aides, exc. Nursing	673	1196	77.7
Practical Nurses	1384	2272	64.2
Child Care Workers, exc. Private	1990	3748	88.3
Guards	807	1221	51.3
Police & Detectives	1158	1776	52.5
<u>Farmers And Farm Workers</u>			
Farm Managers	860	2015	134.3

TABLE 12

SELECTED OCCUPATIONS HAVING  
NEGATIVE GROWTH RATE IN MONTANA  
1976 - 1985

<u>Professional, Technical, Kindred</u>	<u>Total Employment</u> <u>1976</u>	<u>1985</u>	<u>Percent</u> <u>Change</u>
Atmospheric, Space Scientist	241	224	-7.1
Farm Management Advisors	105	55	-47.6
Research Workers, nec.	439	350	-20.3
College & University teachers	2232	1769	-20.7
<u>Manager, Official, Proprietors</u>			
Postmasters and Mail Supervisors	296	227	-23.3
School Administrators, College	302	266	-10.9
Officials of Lodges, Unions	275	180	-34.5
<u>Sales Workers</u>			
Newspaper Carrier & Vendor	404	343	-15.1
<u>Clerical Workers</u>			
Stenographers	766	573	-25.2
Key punch Operators	498	392	-21.3
Mail Carriers, Post Office	777	648	-16.6
Postal Clerks	831	616	-25.9
Telegraph Operators	207	168	-18.8
Enumerators & Interviewers	602	395	-65.6
<u>Crafts and Kindred Workers</u>			
Blacksmiths	43	25	-41.9
Compositors and Typesetters	528	474	-10.2
Locomotive Engineer Helpers	75	64	-14.7
Bakers	388	387	-0.3
<u>Operatives</u>			
Grinding Machine Operatives	63	55	12.7
Clothing Ironers & Pressers	310	286	-7.7
Filer, Polisher, Sander, Buffer	150	146	-2.7
Bus Drivers	1547	1302	-15.8
Taxicab Drivers, Chauffeurs	233	228	-2.2
<u>Service Workers</u>			
Baggage Porters & Bellhops	77	40	-48.1
Barbers	577	481	16.6
Elevator Operators	72	67	-6.9
ChildCare Workers, Private	1297	1007	-22.4
Housekeepers, Private	170	109	-35.9
<u>Farmers and Farm Workers</u>			
Farm Laborers, Wage Workers	12042	10020	-16.8

TABLE 13

## EMPLOYMENT PROJECTIONS PROGRAM

MONTANA AVERAGE ANNUAL JOB OPENINGS  
DUE TO GROWTH AND DUE TO LABOR FORCE  
SEPARATIONS BY CENSUS MATRIX OCCUPATIONS  
1976-1985

	Total Openings	Openings Due to Growth	Openings Due to Separations
TOTAL ALL OCCUPATIONS	23768	11404	12364
Professional, technical, and kindred .....	3306	1773	1532
Engineers, technical .....	131	90	42
Engineers, aero-astronautic .....	*	*	*
Engineers, chemical .....	5	*	*
Engineers, Civil .....	42	23	18
Engineers, electrical .....	35	27	8
Engineers, industrial .....	13	9	*
Engineers, mechanical .....	7	5	*
Engineers, metallurgical .....	*	*	*
Engineers, mining .....	*	*	*
Engineers, petroleum .....	*	*	*
Engineers, sales .....	*	*	*
Engineers, other .....	18	15	*
Life and physical scientists .....	71	38	33
Agricultural scientists .....	25	14	11
Atmospheric, space scientists .....	*	*	*
Biological scientists .....	8	*	5
Chemists .....	11	5	6
Geologists .....	25	17	8
Marine scientists .....	*	*	*
Physicists and astronomers .....	*	*	*
Life, physical scientists nec .....	*	*	*
Mathematical specialists .....	6	*	*
Actuaries .....	*	*	*
Mathematicians .....	*	*	*
Statisticians .....	*	*	*
Engineers, science technicians .....	167	114	53
Agri biolog tech exc health .....	10	5	5
Chemical technicians .....	12	8	*
Drafters .....	48	35	13
Electrical, electronic tech .....	14	11	*
Industrial engineering tech .....	*	*	*
Mathematical techn .....	*	*	*
Mechanical engineering tech .....	*	*	*
Surveyors .....	37	29	8
Engineering, science tech nec .....	44	24	20
Medical workers, exc tech .....	584	349	235
Chiropractors .....	10	5	5
Dentists .....	38	29	9
Dietitians .....	17	8	9
Optometrists .....	55	42	13
Pharmacists .....	30	9	22
Physicians, MD Osteopaths .....	78	60	19
Podiatrists .....	18	11	7
Registered Nurses	269	139	130
Therapists	60	38	22
Veterinarians	8	7	*
Other medical and health	*	*	*

\*Less than five

	Total Openings	Openings Due to Growth	Openings Due to Separations
Health technol and tech .....	110	68	42
Clinical lab technol, tech .....	54	35	19
Dental hygienists .....	5	*	*
Health record technol, tech .....	*	*	*
Radiologic technol, tech .....	31	20	11
Therapy assistants .....	*	*	*
Other health technol, tech .....	16	8	9
Technicians, exc health .....	66	40	26
Airplane pilots .....	15	13	*
Air traffic controllers .....	15	10	6
Embalmers .....	*	*	*
Flight engineers .....	*	*	*
Radio operators .....	23	10	13
Tool programers, numerical .....	*	*	*
Other technicians exc health .....	12	6	5
Computer specialists .....	21	18	*
Computer programers .....	15	13	*
Computer systems analysis .....	*	*	*
Other computer specialists .....	*	*	*
Social scientists .....	27	19	8
Economists .....	12	8	4
Political scientists .....	*	*	*
Psychologists .....	9	6	*
Sociologists .....	*	*	*
Urban and regional planners .....	6	5	*
Other social scientists .....	*	*	*
Teachers .....	1209	610	599
Adult education teachers .....	21	11	10
College and univ teachers .....	-10	-52	42
Elementary school teachers .....	735	417	318
Preschool, kindergarten .....	112	74	38
Secondary school teachers .....	264	137	127
Teachers nec, exc coll, univer .....	87	22	65
Writers, artists, entertainers .....	207	117	90
Actors .....	*	*	*
Athletes and kindred workers .....	20	14	6
Authors .....	*	*	*
Dancers .....	*	*	*
Designers .....	12	6	6
Editors and reporters .....	18	9	10
Musicians and composers .....	52	32	20
Painters and sculptors .....	23	12	12
Photographers .....	14	6	8
Public relations specialist .....	39	19	20
Radio, TV announcers .....	13	12	*
Writers, artists, entertain nec .....	11	5	7
Other professional, technical .....	706	308	398
Accountants .....	179	78	101
Architects .....	16	12	*
Archivists and curators .....	*	*	*
Clergy .....	116	61	55
Religious, exc clergy .....	28	13	15
Farm management advisors .....	-5	-6	*
Foresters, conservationists .....	36	7	29
Home management advisors .....	*	*	*
Judges .....	13	*	11
Lawyers .....	91	38	53
Librarians .....	52	18	34
Operations, systems research .....	*	*	*
Personnel labor relations .....	36	20	16
Research workers, nec .....	*	-10	9
Recreation workers .....	35	21	15
Social Workers .....	71	28	43
Vocational, ed counselors .....	38	26	12

\* Less than five

	Total Openings	Openings Due to Growth	Openings Due to Separations
Managers, officials, proprietors .....	3403	1569	1833
Buyers, sales, loan managers .....	499	321	178
Bank, financial managers .....	232	161	71
Credit managers .....	12	5	7
Buyers, shippers, farm products .....	21	6	15
Buyers, wholesale, retail .....	41	24	16
Purchasing agents, buyers, nec .....	44	23	21
Sales manager, retail trade .....	107	71	36
Sales manager, exc ret trade .....	42	31	11
Administrators, pub inspectors .....	494	217	277
Assess, control, loc pub admin .....	60	15	45
Construction inspector, pub .....	8	*	5
Health administrators .....	59	34	25
Inspectors, exc construct pub .....	47	18	29
Officials, admins, pub .....	152	56	96
Postmasters and mail super .....	7	-8	14
School admin, college .....	4	-4	8
School admin, elem, secondary .....	158	104	54
Other managers, officials, props .....	2410	1031	1379
Funeral directors .....	19	5	15
Mgrs, superintendents, bldg .....	87	23	65
Office managers, nec .....	158	84	74
Officers, pilots, pursers, ship .....	*	*	*
Officials of lodges, unions .....	*	-11	9
Railroad conductors .....	46	31	14
Restaurant, cafe, bar mgrs .....	210	97	113
Other mgrs, administrators .....	1891	803	1088
Sales workers .....	1273	572	700
Advertising agents, sales wrks .....	24	13	11
Auctioneers .....	*	*	*
Demonstrators .....	14	6	7
Hucksters and peddlers .....	84	23	61
Insurance agents, brokers, etc .....	107	53	55
Newspaper carrier and vendor .....	*	-7	6
Real estate agents, brokers .....	145	57	87
Stock and bond sales agents .....	16	5	11
Sales and sales workers, nec .....	882	420	461
Clerical workers .....	3779	2009	1771
Stenographers, typists, secre .....	1095	597	498
Secretaries, legal .....	36	23	13
Secretaries, medical .....	43	31	12
Secretaries, other .....	870	495	375
Stenographers .....	*	-22	25
Typists .....	142	69	73
Office machine operators .....	48	15	32
Bookkeeping, billing operators .....	17	10	7
Calculating machine operators .....	*	*	*
Computer, peripheral equip .....	21	15	6
Duplicating machine operators .....	*	*	1
Key punch operators .....	*	-12	14
Tabulating machine operators .....	*	*	*
Other office machine operators .....	*	*	*
Other clerical workers .....	2637	1397	1241
Bank tellers .....	100	62	39
Billing clerks .....	48	36	12

\* Less than five



	Total Openings	Openings Due to Growth	Openings Due to Separations
Bookkeepers .....	491	209	282
Cashiers .....	313	183	130
Clerical assist, soc welfare .....	10	8	*
Clerical supervisors, nec .....	43	24	19
Collectors, bill and account .....	12	7	5
Counter clerks, exc food .....	161	52	109
Dispatcher, starter, vehicle .....	24	12	12
Enumerators and interviewers .....	-0	-23	15
Estimators, investigators, nec .....	98	55	47
Expeditors, prod controllers .....	9	7	*
File clerks .....	25	11	14
Insurance adjust, examiners .....	19	12	7
Library attendants, assistant .....	31	12	19
Mail carriers, post office .....	8	-14	23
Mail handler, exc post office .....	27	11	16
Messengers and office helpers .....	6	*	*
Meter readers, utilities .....	14	12	*
Payroll, time keeping clerks .....	29	12	16
Postal clerks .....	*	-24	24
Proofreaders .....	*	*	*
Real estate appraisers .....	27	7	20
Receptionists .....	176	92	84
Shipping, receiving clerks .....	41	21	20
Statistical clerks .....	62	37	25
Stock clerks, store keepers .....	70	36	34
Teachers aides, exc monitors .....	211	155	56
Telegraph messengers .....	*	*	*
Telegraph operators .....	-1	-4	*
Telephone operators .....	41	8	33
Ticket station, express agents .....	23	13	10
Weighers .....	20	9	10
Misc clerical workers, nec .....	507	356	151
 Crafts and kindred workers .....	 3055	 1808	 1247
Construction crafts workers .....	1302	814	488
Carpenters and apprentices .....	583	333	249
Brick and stonemasons and annr .....	15	10	5
Bulldozer operators .....	83	63	20
Cement and concrete finishers .....	17	14	*
Electricians and apprentices .....	168	115	53
Excavating, grading, mach opr .....	184	121	63
Floor layers, exc tile setters .....	*	*	*
Painters, construction, maint .....	71	41	30
Paperhangers .....	*	*	*
Plasterers and apprentices .....	5	*	*
Plumbers, pipefitters and appr .....	132	80	51
Roofer and slaters .....	14	10	*
Structural metal craft workers .....	27	23	*
Tilersetters .....	5	*	*
 Blue collar worker supvr, nec .....	 298	 167	 131
 Metalworking craft wrkrs exc mec .....	 119	 66	 53
Blacksmiths .....	*	*	*
Boilermakers .....	8	*	5
Heat treaters, annealers, etc .....	*	*	*
Forge and hammer operators .....	*	*	*
Job and die setters, metal .....	*	*	*
Machinists and apprentices .....	50	29	22
Millwrights .....	35	22	13
Molders, metal and apprentices .....	*	*	*
Pattern and model makers .....	*	*	*
Rollers and finishers, metal .....	*	*	*

\* Less than five



	Total Openings	Openings Due to Growth	Openings Due to Separations
Sheetmetal workers and appr .....	24	15	9
Tool and diemakers and appr .....	*	*	*
Mechanics, repairers, installers .....	789	466	323
Air cond, heating, refrig mech .....	45	29	16
Aircraft mechanics .....	7	5	*
Auto accessories installers .....	*	*	*
Auto body repairers .....	33	15	18
Auto mechanics and appr .....	232	116	117
Data processing mach repairers .....	6	6	*
Farm implement mechanics .....	79	45	34
Heavy equip mech, incl deisel .....	195	126	69
Household appliance mechanics .....	58	39	19
Loom fixers .....	*	*	*
Office machine repairers .....	25	22	*
Radio, television repairers .....	23	15	8
Railroad, car shop repairers .....	23	13	10
Other mechanics and appr .....	61	36	26
Printing trade crafts workers .....	21	*	22
Bookbinders .....	*	*	*
Compositors and typesetters .....	10	-6	16
Electrotypers, stereotypers .....	*	*	*
Engravers exc photoengravers .....	*	*	*
Photoengravers, lithographers .....	*	*	*
Printn press opers & appren .....	6	*	*
Transportation, pub util craft .....	155	116	39
Elec pwr line installer, reprs .....	55	47	8
Locomotive engineers .....	56	39	17
Locomotive engineer helpers .....	*	*	*
Power station operators .....	*	*	*
Telephone installers, repairers .....	35	25	10
Telephone line instaln, splicer .....	7	5	*
Other crafts, kindred workers .....	369	178	191
Bakers .....	14	*	15
Cabinetmakers .....	7	*	6
Carpet installers .....	9	7	*
Crane, derrick, and hoist opr .....	55	38	17
Decorators, window dressers .....	27	16	11
Dental laboratory tech .....	6	*	*
Furniture and wood finishers .....	*	*	*
Furriers .....	*	*	*
Glaziers .....	11	9	*
Inspectors, log and lumber .....	25	15	11
Inspectors, other .....	30	17	13
Jewelers and watchmakers .....	5	*	*
Millers, grain, flour, feed .....	*	*	*
Motion picture projectionists .....	12	3	8
Opticians, lens grindr, polishr .....	35	26	9
Piano, organ tuners, repairers .....	*	*	*
Shipfitters .....	*	*	*
Shoe repairers .....	10	*	9
Sign painters and letterers .....	3	*	*
Stationary engineers .....	78	22	55
Stone cutters, stone carvers .....	*	*	*
Tailors .....	9	*	7
Upholsterers .....	15	*	12
Crafts, kindred workers, nec .....	12	10	*
Operatives .....	1835	993	842

\* Less than five

	Total Openings	Openings Due to Growth	Openings Due to Separations
Operatives, exc transport .....	1241	678	562
Semiskilled metalworking .....	142	86	56
Drill press operatives .....	*	*	*
Furnace tendrs, smeltrs, pourers .....	12	5	8
Grinding machine operatives .....	*	*	*
Heaters, metal .....	*	*	*
Lathe, milling mach operatives .....	*	*	*
Metal platers .....	*	*	*
Other precision mach operators .....	*	*	*
Punch stamping press operative .....	*	*	*
Solderers .....	*	*	*
Welders and flame cutters .....	124	80	44
Semiskilled textile .....	*	*	*
Carding, lapping, combing oprs .....	*	*	*
Knitters, loopers, and toppers .....	*	*	*
Spinners, twistrs, winders .....	*	*	*
Weavers .....	*	*	*
Other textile operatives .....	*	*	*
Semiskilled packing, inspecting .....	75	41	34
Checkers, examiners, etc, mfg .....	10	5	*
Graders and sorters, mfg .....	10	7	*
Meat wrappers, retail trade .....	10	5	5
Packer, wrapper, ex meat, produce .....	43	24	19
Prod grdr, packer, exc fact, farm .....	*	*	*
Other operatives, exc transport .....	1023	551	472
Asbestos, insulation workers .....	6	6	*
Assemblers .....	21	16	*
Blasters .....	12	11	*
Bottling, canning operatives .....	*	*	*
Surveyor helpers .....	14	13	*
Clothing ironers and pressers .....	13	*	15
Cutting operatives, nec .....	19	10	9
Dressmakers, exc factory .....	54	7	47
Drillers, earth .....	55	37	17
Dry wall installers, lathes .....	10	8	*
Dyers .....	*	*	*
Filer, polisher, sander, buffer .....	5	*	6
Garage wrkrs, gas station atten .....	123	69	54
Laundry, dry cleaning oprs, nec .....	101	50	50
Meat cutters, butchers, exc mfg .....	23	*	19
Meat cutters, butchers .....	18	11	7
Milleners .....	*	*	*
Mine operatives, nec .....	108	65	43
Mixing operatives .....	*	*	*
Oilers, greasers, exc auto .....	18	11	7
Painters, mfg articles .....	16	8	7
Photographic process workers .....	21	12	9
Riveters and fasteners .....	*	*	*
Sailors and deckhands .....	*	*	*
Sawyers .....	108	70	39
Sewers and stitchers .....	19	8	11
Shoemaking machine operatives .....	*	*	*
Furnace tendr, stokr exc metal .....	13	*	11
Winding operatives, nec .....	*	*	*
Misc mach operatives .....	124	69	55
Operatives, nec .....	113	61	52
Transport equipment operatives .....	594	314	280
Boat operators .....	*	*	*
Bus drivers .....	34	-27	61

\* Less than five

	Total Openings	Openings Due to Growth	Openings Due to Separations
Conductors and opr, urban rail .....	*	*	*
Delivery and route workers .....	129	87	42
Fork lift, tow motor operatives .....	52	39	13
Rail vehicle operators, nec .....	25	18	7
Parking attendant .....	7	*	5
Railroad brake operators .....	42	30	12
Railroad switch operators .....	23	14	9
Taxicab drivers, chauffeurs .....	10	*	10
Truck drivers .....	271	154	117
 Service workers .....	 4578	 2182	 2396
Cleaning service workers .....	1108	472	636
Lodging quartrs cleaners exc pr.....	223	134	90
Bldg interior cleaners, nec .....	438	203	236
Janitors and sextons .....	447	136	311
 Food service workers .....	 1811	 941	 871
Bartenders .....	277	129	148
Waiters assistants .....	34	30	5
Cooks, exc private .....	613	304	309
Dishwashers .....	116	54	62
Food counter, fountain workers .....	133	86	47
Waiters .....	516	278	237
Food workers, nec, exc private .....	124	61	63
 Health service workers .....	 696	 394	 302
Dental assistants .....	61	43	17
Health aides, except nursing .....	86	59	27
Health trainees .....	*	*	*
Lay midwives .....	*	*	*
Nurses aides, orderlies .....	369	194	175
Practical nurses .....	180	99	81
 Personal service workers .....	 648	 277	 371
Flight attendants .....	*	*	*
Atten, recreation, amusement .....	22	11	11
Atten, personal service, nec .....	26	8	18
Baggage porters and bellhops .....	*	*	*
Barbers .....	22	-10	33
Boarding, lodging housekeepers .....	26	*	23
Bootblacks .....	*	*	*
Child care workers, exc private .....	344	196	148
Elevator operators .....	7	*	8
Hairdressers, cosmetologists .....	117	38	79
Housekeepers, exc private .....	38	14	24
School monitors .....	12	7	6
Ushers, recreation, amusement .....	*	*	*
Welfare service aides .....	33	14	19
 Protective and service workers .....	 274	 146	 128
Crossing guard, bridgetenders .....	*	*	*
Firefighters .....	21	16	*
Guards .....	120	46	74
Marshals and constables .....	*	*	*
Police and detectives .....	94	68	26
Sheriffs and bailiffs .....	39	17	23
 Private household workers .....	 42	 -46	 88
Child care workers .....	25	-32	57
Cooks, private .....	*	*	*
Housekeepers, private .....	*	-6	8
Laundryers, private household .....	*	*	*
Pri household cleaners, servants .....	15	-6	21

\* Less than five

	Total Openings	Openings Due to Growth	Openings Due to Separations
Laborers, except farm .....	946	500	447
Animal caretakers, exc farm .....	32	14	19
Carpenters, helpers .....	19	13	6
Constr labr, exc carpenter help .....	169	112	57
Fishers, hunters and trappers .....	*	*	*
Freight, material handlers .....	130	88	42
Garbage collectors .....	39	32	7
Gardenrs, groundkeepr, exc farm .....	149	46	103
Longshore workers, stevedores .....	5	*	*
Timbercutting, logging workers .....	19	*	19
Stock handlers .....	128	77	50
Teamsters .....	*	*	*
Vehicle washers, equip cleaners .....	56	38	18
Warehouse laborers, nec .....	22	9	13
Other laborers .....	175	67	109
 Farmers and farm workers .....	 1592	 *	 1595
Farmers and farm managers .....	1296	160	1135
Farmers (owners and tenants) .....	1081	32	1049
Farm managers .....	215	128	87
Farm laborers, farm supervisors .....	296	-163	460
Farm labor supervisors .....	41	18	23
Farm laborers, wage wrkrs .....	171	-225	396
Farm laborers, unpaid family .....	83	43	40
Farm laborers, self-empl .....	*	*	*

TABLE 14

EMPLOYMENT PROJECTIONS PROGRAM  
MONTANA  
TOTAL EMPLOYMENT BY CENSUS  
MATRIX OCCUPATIONS

	1976 EMPLOYMENT	PROJECTED 1985 EMPLOYMENT	1976-1985 PERCENT CHANGE
TOTAL ALL OCCUPATIONS	314747	417380	32.6
Professional, technical, and kindred .....	46209	62166	34.5
Engineers, technical .....	2408	3216	33.6
Engineers, aero-astronautic .....	*	*	*
Engineers, chemical .....	70	101	44.3
Engineers, Civil .....	934	1141	22.2
Engineers, electrical .....	545	786	44.2
Engineers, industrial .....	183	260	42.1
Engineers, mechanical .....	173	222	28.3
Engineers, metallurgical .....	26	32	23.1
Engineers, mining .....	71	88	23.9
Engineers, petroleum .....	70	92	31.4
Engineers, sales .....	43	64	48.8
Engineers, other .....	293	430	46.8
Life and physical scientists .....	1481	1827	23.4
Agricultural scientists .....	367	490	33.5
Atmospheric, space scientists .....	241	224	- 7.1
Biological scientists .....	262	293	11.8
Chemists .....	176	226	28.4
Geologists .....	385	538	39.7
Marine scientists .....	33	40	21.2
Physicists and astronomers .....	17	16	- 5.9
Life, physical scientists nec .....	*	*	*
Mathematical specialists .....	69	92	33.3
Actuaries .....	*	*	*
Mathematicians .....	13	17	30.8
Statisticians .....	56	75	33.9
Engineers, science technicians .....	2846	3866	35.8
Agri biolog tech exc health .....	207	253	22.2
Chemical technicians .....	280	354	26.4
Drafters .....	693	1007	45.3
Electrical, electronic tech .....	319	423	32.6
Industrial engineering tech .....	11	21	90.9
Mathematical techn .....	*	*	*
Mechanical engineering tech .....	*	*	*
Surveyors .....	529	785	48.4
Engineering, science tech nec .....	807	1023	26.8
Medical workers, exc tech .....	6301	9438	49.8
Chiropractors .....	90	137	52.2
Dentists .....	471	728	54.6
Dietitians .....	172	246	43.0
Optometrists .....	414	793	91.6
Pharmacists .....	509	590	15.9
Physicians, MD osteopaths .....	932	1468	57.5
Podiatrists .....	129	234	81.4
Registered nurses .....	2944	4199	42.6
Therapists .....	535	876	63.7
Veterinarians .....	105	167	59.0
Other medical and health .....	*	*	*

\*Less than ten

	1976 EMPLOYMENT	PROJECTED 1985 EMPLOYMENT	1976-1985 PERCENT CHANGE
Health technol and tech .....	1422	2035	43.1
Clinical lab technol, tech .....	619	934	50.9
Dental hygienists .....	26	67	157.7
Health record technol, tech .....	23	36	56.5
Radiologic technol, tech .....	306	482	57.5
Therapy assistants .....	12	13	8.3
Other health technol, tech .....	436	503	15.4
Technicians, exc health .....	1013	1368	35.0
Airplane pilots .....	195	311	59.5
Air traffic controllers .....	274	360	31.4
Embalmers .....	*	*	*
Flight engineers .....	*	*	*
Radio operators .....	216	310	43.5
Tool programers, numerical .....	*	*	*
Other technicians exc health .....	319	378	18.8
Computer specialists .....	435	593	36.3
Computer programers .....	302	422	39.7
Computer systems analysis .....	102	133	30.4
Other computer specialists .....	31	38	22.6
Social scientists .....	389	566	45.5
Economists .....	185	260	40.5
Political scientists .....	*	*	*
Psychologists .....	137	190	38.7
Sociologists .....	*	*	*
Urban and regional planners .....	64	111	73.4
Other social scientists .....	*	*	*
Teachers .....	15203	20696	36.1
Adult education teachers .....	228	325	42.5
College and univ teachers .....	2232	1769	-20.7
Elementary school teachers .....	6387	10144	58.8
Preschool, kindergarten .....	838	1506	79.7
Secondary school teachers .....	4375	5613	28.3
Teachers nec, exc coll, univer .....	1143	1339	17.2
Writers, artists, entertainers .....	3037	4091	34.7
Actors .....	18	22	22.2
Athletes and kindred workers .....	231	362	56.7
Authors .....	27	39	44.4
Dancers .....	*	*	*
Designers .....	184	242	31.5
Editors and reporters .....	373	449	20.4
Musicians and composers .....	644	929	44.3
Painters and sculptors .....	410	518	26.3
Photographers .....	311	363	16.7
Public relations specialist .....	395	569	44.1
Radio, TV announcers .....	249	352	46.7
Writers, artists, entertain nec .....	204	246	20.6
Other professional, technical .....	11605	14378	23.9
Accountants .....	2645	3349	26.6
Architects .....	216	325	50.5
Archivists and curators .....	22	20	- 9.1
Clergy .....	1032	1580	53.1
Religious, exc clergy .....	222	341	53.6
Farm management advisors .....	105	55	-47.6
Judges .....	103	122	18.5
Lawyers .....	1236	1573	27.4
Librarians .....	554	716	29.2
Operations, systems research .....	16	18	12.5
Personnel labor relations .....	644	831	29.0
Research workers, nec .....	439	350	-20.3
Recreation workers .....	402	588	46.3
Social workers .....	1123	1371	22.1
Vocational, ed counselors .....	631	860	36.3

\*Less than ten



	1976 EMPLOYMENT	PROJECTED 1985 EMPLOYMENT	1976-1985 PERCENT CHANGE
Managers, officials, proprietors .....	40776	54899	34.6
Buyers, sales, loan managers .....	5266	8151	54.8
Bank, financial managers .....	2073	3523	70.0
Credit managers .....	135	179	32.6
Buyers, shippers, farm products .....	215	271	26.1
Buyers, wholesale, retail .....	395	615	55.7
Purchasing agents, buyers, nec .....	365	567	55.3
Sales manager, retail trade .....	1343	1979	47.4
Sales manager, exc ret trade .....	740	1017	37.4
Administrators, pub inspectors .....	5341	7299	36.7
Assess, control, loc pub admin .....	486	617	27.0
Construction inspector, pub .....	39	62	59.0
Health administrators .....	589	892	51.4
Inspectors, exc construct pub .....	507	669	32.0
Officials, admins, pub .....	1743	2245	28.8
Postmasters and mail super .....	296	227	-23.3
School admin, college .....	302	269	-10.9
School admin, elem, secondary .....	1379	2318	68.1
Other managers, officials, props .....	30169	39449	30.8
Funeral directors .....	199	245	23.1
Mgrs, superintendents, bldg .....	398	601	51.0
Office managers, nec .....	1690	2440	44.4
Officers, pilots, pursers, ship .....	*	*	*
Officials of lodges, unions .....	275	180	-34.5
Railroad conductors .....	385	665	72.7
Restaurant, cafe, bar mgrs .....	2700	3574	32.4
Other mgrs, administrators .....	24522	317443	29.5
Sales workers .....	16989	22136	30.3
Advertising agents, sales wrks .....	242	360	48.8
Auctioneers .....	46	49	6.5
Demonstrators .....	254	310	22.1
Hucksters and peddlers .....	1362	1569	15.2
Insurance agents, brokers, etc .....	1445	1920	32.9
Newspaper carrier and vendor .....	404	343	-15.1
Real estate agents, brokers .....	1159	1676	44.6
Stock and bond sales agents .....	185	229	23.8
Sales workers, nec .....	11892	15680	31.9
Clerical workers .....	44665	62748	40.5
Stenographers, typists, secre .....	12315	17683	43.6
Secretaries, legal .....	388	590	52.1
Secretaries, medical .....	240	517	115.4
Secretaries, other .....	8692	13153	51.3
Stenographers .....	766	573	-25.2
Typists .....	2229	2850	27.9
Office machine operators .....	1198	1338	11.7
Bookkeeping, billing operators .....	127	223	75.6
Calculating machine operators .....	13	22	69.2
Computer, peripheral equip .....	426	559	31.2
Duplicating machine operators .....	44	51	15.9
Key punch operators .....	498	392	-21.3
Tabulating machine operators .....	*	*	*
Other office machine operators .....	90	91	1.1
Other clerical workers .....	31152	43727	40.4
Bank tellers .....	1124	1681	49.6
Billing clerks .....	397	721	81.6
*Less than ten			

	1976 EMPLOYMENT	PROJECTED 1985 EMPLOYMENT	1976-1985 PERCENT CHANGE
Bookkeepers .....	7072	8956	26.6
Cashiers .....	3513	5166	47.1
Clerical assist, soc welfare .....	222	290	30.6
Clerical supervisors, nec .....	686	905	31.9
Collectors, bill and account .....	148	217	46.6
Counter clerks, exc food .....	1701	2170	27.6
Dispatcher, starter, vehicle .....	373	480	28.7
Enumerators and interviewers .....	602	395	-65.6
Estimators, investigators, nec .....	1037	1532	47.7
Expeditors, prod controllers .....	119	180	51.3
File clerks .....	363	459	26.5
Insurance adjust, examiners .....	311	421	36.4
Library attendants, assistant .....	492	596	21.1
Mail carriers, post office .....	777	648	-16.6
Mail handler, exc post office .....	273	377	38.1
Messengers and office helpers .....	173	182	5.2
Meter readers, utilities .....	131	238	81.7
Payroll, time keeping clerks .....	313	418	33.6
Postal clerks .....	831	616	-25.9
Proofreaders .....	27	37	37.0
Real estate appraisers .....	230	293	27.4
Receptionists .....	1963	2795	42.4
Shipping, receiving clerks .....	561	751	33.9
Statistical clerks .....	778	1111	42.8
Stock clerks, store keepers .....	1045	1368	30.9
Teachers aides, exc monitors .....	1203	2606	116.6
Telegraph messengers .....	*	*	*
Telegraph operators .....	207	168	-18.8
Telephone operators .....	1060	1129	6.5
Ticket station, express agents .....	334	446	33.5
Weighers .....	150	235	56.7
Misc clerical workers, nec .....	2933	6139	109.3
 Crafts and kindred workers .....	 39471	 55740	 41.2
Construction crafts workers .....	13845	21175	52.9
Carpenters .....	5767	8770	52.1
Brickmasons and stonemasons .....	271	358	32.1
Bulldozer operators .....	798	1361	70.6
Cement and concrete finishers .....	136	262	92.7
Electricians .....	1850	2881	55.7
Excavating, grading, mach opr .....	2138	3222	50.7
Floor layers, exc tile setters .....	57	65	14.0
Painters, construction, maint .....	947	1308	38.1
Paperhangers .....	*	*	*
Plasterers .....	36	41	13.9
Plumbers and pipefitters .....	1336	2061	54.3
Roofer and slaters .....	155	247	59.4
Structural metal craft workers .....	240	450	87.5
Tilesetters .....	106	141	33.0
 Blue collar worker supvr, nec .....	 3813	 5312	 39.3
 Metalworking craft wrkrs exc mec .....	 1753	 2355	 34.3
Blacksmiths .....	43	25	-41.9
Boilermakers .....	185	204	10.3
Heat treaters, annealers, etc .....	*	*	*
Forge and hammer operators .....	*	*	*
Job and die setters, metal .....	12	18	50.0
Machinists .....	702	963	37.2
Millwrights .....	401	597	48.9
Molders, metal .....	25	23	- 8.0
Pattern and model makers .....	*	*	*
Rollers and finishers, metal .....	*	*	*

\*Less than ten



	1976 EMPLOYMENT	PROJECTED 1985 EMPLOYMENT	1976-1985 PERCENT CHANGE
Sheet metal workers, tinsmiths .....	~354	~493	39.3
Tool, diemakers .....	29	30	3.5
Mechanics, repairers, installers .....	11978	16176	35.1
Air cond, heating, refrig mech .....	345	605	75.4
Aircraft mechanics .....	139	184	32.4
Auto accessories installers .....	27	23	-14.8
Auto body repairers .....	689	823	19.5
Auto mechanics .....	4552	5596	22.9
Data processing mach repairers .....	59	113	91.5
Farm implement mechanics .....	931	1338	43.7
Heavy equip mech, incl deisel .....	2751	3883	41.2
Household appliance mechanics .....	528	874	65.5
Mechanics, repairers, installers .....	*	*	*
Loom fixers .....	222	422	90.1
Office machine repairers .....	412	549	33.3
Radio, television repairers .....	452	575	27.2
Railroad, car shop repairers .....	870	1190	36.8
Other mechanics and apprentice .....			
Printing trade crafts workers .....	837	826	- 1.3
Bookbinder .....	55	56	1.8
Compositors and typesetters .....	528	474	-10.2
Electrotypers, stereotypers .....	*	*	*
Engravers exc photoengravers .....	22	30	36.4
Photoengravers, lithographers .....	26	34	30.8
Printing press operators .....	201	228	13.4
Transportation, pub util craft .....	2032	3080	51.6
Elec pwr line installer, reprs .....	437	858	96.3
Locomotive engineers .....	452	804	77.9
Locomotive engineer helpers .....	75	64	-14.7
Power station operators .....	31	41	32.3
Telephone installers, repairers .....	751	979	30.4
Telephone line instair, splicer .....	286	334	16.8
Other crafts, kindred workers .....	5213	6816	30.8
Bakers .....	388	387	- 0.3
Cabinetmakers .....	153	168	9.8
Carpet installers .....	169	228	34.9
Crane, derrick, and hoist opr .....	680	1021	50.2
Decorators, window dressers .....	293	442	50.9
Dental laboratory tech .....	76	110	44.7
Furniture and wood finishers .....	25	36	44.0
Furriers .....	*	*	*
Glaziers .....	136	216	58.8
Inspectors, log and lumber .....	372	503	35.2
Inspectors, other .....	421	572	35.9
Jewelers and watchmakers .....	127	136	7.1
Millers, grain, flour, feed .....	59	67	13.6
Motion picture projectionists .....	106	135	27.4
Opticians, lens grindr, polishr .....	278	512	84.2
Piano, organ tuners, repairers .....	31	34	9.7
Shipfitters .....	*	*	*
Shoe repairers .....	132	138	4.6
Sign painters and letterers .....	60	67	11.7
Stationary engineers .....	1144	1349	17.9
Other crafts, kindred workers .....	*	*	*
Stone cutters, stone carvers .....			
Tailors .....	54	64	18.5
Upholsterers .....	249	279	12.1
Crafts, kindred workers, nec .....	260	352	35.4

\*Less than ten

	1976 EMPLOYMENT	PROJECTED 1985 EMPLOYMENT	1976-1985 PERCENT CHANGE
Operatives, exc transport .....	20083	26189	30.4
Semiskilled metalworking .....	2347	3119	32.9
Drill press operatives .....	11	13	18.2
Furnace tendrs, smeltrs. pourers .....	440	481	9.3
Grinding machine operatives .....	63	55	-12.7
Heaters, metal .....	*	*	*
Lathe, milling mach operatives .....	52	56	7.7
Metal platers .....	19	18	- 5.3
Other precision mach operators .....	*	*	*
Punch stamping press operative .....	35	50	14.1
Solderers .....	*	*	*
Welders and flame cutters .....	1717	2437	41.9
Semiskilled textile .....	11	13	18.2
Carding, lapping, combing oprs .....	*	*	*
Knitters, loopers, and toppers .....	*	*	*
Spinners, twistrs, winders .....	*	*	*
Weavers .....	*	*	*
Other textile operatives .....	*	*	*
Semiskilled packing, inspecting .....	1076	1445	34.3
Checkers, examiners, etc, mfg .....	141	188	33.3
Graders and sorters, mfg .....	114	177	55.3
Meat wrappers, retail trade .....	180	229	27.2
Packer, wrapper, ex meat, produce .....	591	805	36.2
Prod grdr, packer, exc fact, farm .....	50	46	8.0
Other operatives, exc transport .....	16649	21612	29.8
Asbestos, insulation workers .....	82	132	61.0
Assemblers .....	270	413	53.0
Blasters .....	80	179	123.8
Bottling, canning operatives .....	81	96	18.5
Surveyor helpers .....	250	367	46.8
Clothing ironers and pressers .....	310	286	- 7.7
Cutting operatives, nec .....	376	463	23.1
Dressmakers, exc factory .....	506	570	12.7
Drillers, earth .....	644	980	52.2
Dry wall installers, lathes .....	103	178	72.8
Dyers .....	*	*	*
Filer, polisher, sander, buffer .....	150	146	- 2.7
Garage wrkrs, gas station atten .....	2696	3317	23.0
Laundry, dry cleaning oprs, nec .....	874	1329	52.1
Meat cutters, butchers, exc mfg .....	651	689	5.8
Meat cutters, butchers .....	309	405	31.1
Milleners .....	17	14	-17.7
Mine operatives, nec .....	1575	2164	37.4
Mixing operatives .....	133	154	15.8
Oilers, greasers, exc auto .....	335	436	30.2
Painters, mfg articles .....	102	179	75.5
Photographic process workers .....	178	292	64.0
Riveters and fasteners .....	13	10	-23.1
Sailors and deckhands .....	*	*	*
Sawyers .....	1584	2210	39.5
Sewers and stitchers .....	241	311	29.1
Shoemaking machine operatives .....	*	*	*
Furnace tendr, stokr exc metal .....	289	316	9.3
Winding operatives, nec .....	13	24	84.6
Misc mach operatives .....	2537	3157	24.4
Operatives, nec .....	2244	2792	24.4
Transport equipment operatives .....	12043	14877	23.5
Boat operators .....	19	18	- 5.3
Bus drivers .....	1547	1302	-15.8

\*Less than ten

	1976 EMPLOYMENT	PROJECTED 1985 EMPLOYMENT	1976-1985 PERCENT CHANGE
Conductors and opr, urban rail .....	*	*	*
Delivery and route workers .....	2295	3072	33.9
Fork lift, tow motor operatives .....	802	1149	43.3
Rail vehicle operators, nec .....	131	296	126.0
Parking attendant .....	63	83	31.8
Railroad brake operators .....	508	779	53.4
Railroad switch operators .....	393	520	32.3
Taxicab drivers, chauffeurs .....	233	228	- 2.2
Truck drivers .....	6052	7430	22.8
Service workers .....	46793	66434	42.0
Cleaning service workers .....	9851	14098	43.1
Lodging quartrs cleanrs exc pr.....	1349	2550	89.0
Bldg interior cleaners, nec .....	3334	5154	54.6
Janitors and sextons .....	5168	6394	23.7
Food service workers .....	19419	27885	43.6
Bartenders .....	2900	4956	39.9
Waiters assistants .....	554	823	48.6
Cooks, exc private .....	5630	8364	48.6
Dishwashers .....	1531	2015	31.6
Food counter, fountain workers .....	1274	2048	60.8
Waiters .....	6051	8554	41.4
Food workers, nec, exc private .....	1479	2025	36.9
Health service workers .....	6364	9911	55.7
Dental assistants .....	397	792	99.5
Health aides, except nursing .....	673	1196	77.7
Health trainees .....	*	*	*
Lay midwives .....	*	*	*
Nurses aides, orderlies .....	3904	5649	44.7
Practical nurses .....	1384	2272	64.2
Personal service workers .....	6476	8961	38.4
Flight attendants .....	*	14	133.3
Atten, recreation, amusement .....	497	595	19.7
Atten, personal service, nec .....	221	296	33.9
Baggage porters and bellhops .....	77	40	-48.1
Barbers .....	577	481	-16.6
Boarding, lodging housekeepers .....	212	242	14.2
Bootblacks .....	*	*	*
Child care workers, exc private .....	1990	3748	88.3
Elevator operators .....	72	67	- 6.9
Hairdressers, cosmetologists .....	1715	2056	19.9
Housekeepers, exc private .....	518	646	24.7
School monitors .....	76	135	77.6
Ushers, recreation, amusement .....	58	61	5.2
Welfare service aides .....	457	580	26.9
Protective and service workers .....	2857	4173	46.1
Crossing guard, bridgetenders .....	*	*	*
Firefighters .....	395	542	37.2
Guards .....	807	1221	51.3
Marshals and constables .....	28	25	-10.7
Police and detectives .....	1158	1766	52.5
Sheriffs and bailiffs .....	463	612	32.2
Private household workers .....	1826	1406	-77.0
Child care workers .....	1297	1007	-22.4
Cooks, private .....	*	*	*
Housekeepers, private .....	170	109	-35.9
Private household workers .....	1826	1406	-77.0
Laundryers, private household .....	10	4	-60.0
Pri household cleaners, servants .....	340	278	-18.0

\*Less than ten

	1976 EMPLOYMENT	PROJECTED 1985 EMPLOYMENT	1976-1985 PERCENT CHANGE
Laborers, except farm .....	15593	20093	28.9
Animal caretakers, exc farm .....	490	611	24.7
Carpenters, helpers .....	566	683	20.7
Constr labr, exc carpenter help .....	2430	3439	41.5
Fishers, hunters and trappers .....	*	*	*
Freight, material handlers .....	2755	3543	28.6
Garbage collectors .....	345	635	84.1
Gardenrs, groundkeepr, exc farm .....	1136	1545	36.0
Longshore workers, stevedores .....	14	51	264.3
Timbercutting, logging workers .....	939	943	0.4
Stock handlers .....	2377	3075	29.4
Teamsters .....	146	152	4.1
Vehicle washers, equip cleaners .....	567	908	60.1
Warehouse laborers, nec .....	869	953	9.7
Other laborers .....	2952	3551	20.3
Farmers and farm workers .....	32125	32098	- 0.1
Farmers and farm managers .....	18224	19667	7.9
Farmers (owners and tenants) .....	17364	17652	1.7
Farm managers .....	860	2015	134.3
Farm laborers, farm supervisors .....	13901	12431	-10.6
Farm labor supervisors .....	595	757	27.2
Farm laborers, wage wrkrs .....	12042	10020	-16.8
Farm laborers, unpaid family .....	1241	1626	31.0
Farm laborers, self-empl .....	23	28	21.7

\*Less than ten

## NATIONAL JOB OUTLOOK IN THE 80'S

## NATIONAL JOB OUTLOOK IN THE 80's.

Based on the projections of the Occupational Outlook Handbook, 1980-81 edition, employment is expected to increase in almost all occupations. through the 1980's. Between 1978 and 1990, total employment will rise from 94.4 to 114.0 million workers, or an annual average increase of 1.7 percent. In addition to these nearly 20 million new jobs created between 1980 and 1990, about 47 million additional openings are expected to result as people already working leave the labor force because of family duties, retirement, illness, or death.

White-collar occupations include professional, managerial, sales, and clerical jobs. They already account for over half the work force. The rising demand for people to work in environmental protection, energy development, and medicine will increase the need for many types of professional workers. Managers and clerical workers who are employed by all industries will benefit from the growth of the economy as a whole. And the expansion of retail trade will cause increased employment of sales workers. In addition to roughly 11 million jobs resulting from employment growth in all these occupations, more than 25 million openings will result from deaths and retirements.

Blue-collar occupations include craft, operative, and labor jobs, which account for about 33 percent of all employment. During the 1980's, their growth will be slower than the average for all occupations, but will still result in 5 million openings, and over 11 million job openings will occur from deaths and retirements. Blue-collar occupations are concentrated in mining, manufacturing, and construction. In these industries the use of new production methods will allow more goods to be produced by fewer workers. Skilled blue-collar workers, such as tool-and-die makers and business machine mechanics, are less likely to be displaced by changes in technology than are unskilled workers and employment in those occupations will grow more rapidly than total blue-collar employment.

Service occupations include jobs in cleaning, food, health, personal, and protective services. They are expected to be the fastest growing group of occupations during the 1980's; but because this group is smaller than the white-collar and blue-collar groups, the total number of jobs becoming available will not be as large. In addition to almost 4 million openings due to employment growth, the service occupations will provide about 8 million openings from death and retirements. A larger population with more money to spend and the expansion of businesses will cause greater demand for many services. The employment of food service workers, for example, is expected to increase as people choose to dine out more often, and employment of protective service workers will increase because businesses want better security systems.

Farm occupations comprise the smallest of the occupational groups. Farm employment is expected to decline through the 1980's. The use of labor-saving equipment and more efficient farming methods will raise productivity enough to decrease the need for farmers and farm workers.



TABLE 15

**Fastest Growing Jobs,  
1978-90**

Occupation	Annual openings
Bank Clerks	45,000
Bank officers and financial managers	28,000
Business machine repairers	4,200
City managers	350
Computer service technicians	5,400
Construction inspectors	2,200
Dental assistants	11,000
Dental hygienists	6,000
Dining room attendants and dishwashers	37,000
Flight attendants	4,800
Guards	70,000
Health service administrators	18,000
Homemaker-home health aides	36,000
Industrial machinery repairers	58,000
Landscape architects	1,100
Licensed practical nurses	60,000
Lithographers	2,300
Nursing aides, orderlies, and attendants	94,000
Occupational therapists	2,500
Occupational therapy assistants	1,100
Physical therapists	2,700
Podiatrists	600
Respiratory therapy workers	5,000
Speech pathologists and audiologists	3,900
Teacher aides	26,000
Travel agents	1,900

Note For these occupations, employment in 1990 is projected to be at least 50 percent higher than it was in 1978

**Jobs With the Most  
Openings, 1978-90**

Occupation	Annual openings
Secretaries and stenographers	305,000
Retail sales workers	226,000
Building custodians	180,000
Cashiers	119,000
Bookkeeping workers	96,000
Nursing aides, orderlies, and attendants	94,000
Cooks and chefs	86,000
Kindergarten and elementary teachers	86,000
Registered nurses	85,000
Assemblers	77,000
Waiters and waitresses	70,000
Guards	70,000
Blue-collar worker supervisors	69,000
Local truck drivers	64,000
Accountants	61,000
Licensed practical nurses	60,000
Typists	59,000
Carpenters	58,000
Industrial machinery repairers	58,000
Real estate agents and brokers	50,000
Construction laborers	49,000
Engineers	46,500
Bank clerks	45,000
Private household workers	45,000
Receptionists	41,000
Wholesale trade sales workers	40,000

Note Replacement needs and growth are projected to cause these occupations to offer the largest numbers of openings. Competition for openings will vary by occupation.

**NATIONAL JOB OUTLOOK IN BRIEF**

(Based on the Occupational Outlook Handbook, 1980-81 Edition)

**Projected Change In Employment by  
Major Occupational Group, 1978-90**

(In thousands)

Occupational Group	Employment			Openings		
	1978	Projected 1990	Percent Change <sup>1</sup>	Total	Growth	Replacements <sup>2</sup>
White-collar workers	47,205	58,400	23.6	36,800	11,200	25,600
Professional and technical workers	14,245	16,900	18.3	8,300	2,600	5,700
Managers and administrators, except farm	10,105	12,200	20.8	7,100	2,100	5,000
Sales workers	5,951	7,600	27.7	4,800	1,700	3,100
Clerical workers	16,904	21,700	28.4	16,600	4,800	11,800
Blue-collar workers	31,531	36,600	16.1	16,200	5,100	11,100
Craft workers	12,386	14,900	20.0	7,000	2,500	4,500
Operatives, except transport	10,875	12,500	15.0	5,600	1,600	4,000
Transport operatives	3,541	4,100	16.2	1,700	600	1,100
Nonfarm laborers	4,729	5,100	8.1	2,000	400	1,600
Service workers	12,839	16,700	29.9	12,200	3,800	8,400
Private household workers	1,162	900	-23.2	500	-300	800
Other service workers	11,677	15,800	35.2	11,700	4,100	7,600
Farm workers	2,798	2,400	-15.9	1,300	-400	1,700
<b>Total</b>	<b>94,373</b>	<b>114,000</b>	<b>20.8</b>	<b>66,400</b>	<b>19,600</b>	<b>46,800</b>

<sup>1</sup> Calculated from unrounded figures

<sup>2</sup> Due to deaths, retirements, and other

separations from the labor force. Does not include transfers out of occupations





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